

INTERNATIONAL SEARCH REPORT

National Application No
PCT/EP2004/007437

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D498/18 A61K31/436 A61P19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)
EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 258 389 A (GOULET MARK ET AL) 2 November 1993 (1993-11-02) claim 1 column 24, line 31 - line 32	1,2,4, 6-8
X	US 5 527 907 A (OR YAT S ET AL) 18 June 1996 (1996-06-18) claim 1 column 90, line 13	1,2,4, 6-8
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

11 October 2004

Date of mailing of the international search report

22/10/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SHUI C ET AL: "The immunosuppressant rapamycin, alone or with transforming growth factor-beta, enhances osteoclast differentiation of RAW264.7 monocyte-macrophage cells in the presence of RANK-ligand." CALCIFIED TISSUE INTERNATIONAL, vol. 71, no. 5, November 2002 (2002-11), pages 437-446, XP002299513 ISSN: 0171-967X	1,2,4, 6-8
Y	page 444, left-hand column, last paragraph	1,2,4, 6-8
Y	----- ROMERO DAVID F ET AL: "Rapamycin: A bone sparing immunosuppressant?" JOURNAL OF BONE AND MINERAL RESEARCH, vol. 10, no. 5, 1995, pages 760-768, XP008036532 ISSN: 0884-0431 page 766, right-hand column	1,2,4, 6-8
X	----- VAN ETTEN EVELYNE ET AL: "Analogues of 1,25-dihydroxyvitamin D3 as dose-reducing agents for classical immunosuppressants" TRANSPLANTATION (BALTIMORE), vol. 69, no. 9, 15 May 2000 (2000-05-15), pages 1932-1942, XP008036525 ISSN: 0041-1337 page 1932, left-hand column -----	3,6,7

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 4 and 5 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/007437

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5258389	A	02-11-1993	NONE	
US 5527907	A	18-06-1996	CA 2175215 A1	26-05-1995
			EP 0729471 A1	04-09-1996
			JP 9505299 T	27-05-1997
			WO 9514023 A1	26-05-1995
			US 5583139 A	10-12-1996
			US 5672605 A	30-09-1997